

SODIUM BICARBONATE

Safety Data Sheet

Section 1	. Identification	
	: Identification	
Product Name: SODIUM BICARBONATE Other Identification: Baking Soda, Bicarbonate of Soda,	Emergency Phone Number: CHEMTREC: 800-424-9300 CAS#: 144-55-8	
Sodium Hydrogen Carbonate	GAG#. 144-00-0	
Manufacturer: Natural Soda LLC	Intended Use: food and baking ingredient, specialty products,	
3200 County Road 31	fire retardant, animal nutrition, pharmaceutical, household and	
Rifle, Colorado 81650 USA	personal care, mild cleaners, general industrial.	
Phone Number: 1-970-878-3674		
Section 2: Hazard		
Classification of Substance Classification (GHS-US): Not Classified	Other Hazards Inhalation: Breathing dusts may cause coughing or difficulty	
Label Elements	breathing.	
GHS-US Labeling: No applicable labeling	Eye Contact: Direct eye contact may cause irritation, reddening	
Unknown Acute Toxicity (GHS-US)	or tearing.	
Not available	Skin Contact: Direct contact may cause irritation.	
Section 3: Composition / Ir	nformation on Ingredients	
Substance	CAS#: 144-55-8	
Common Name: Sodium Bicarbonate	Formula: NaHCO ₃	
Chemical Names: Sodium Bicarbonate, Bicarbonate of Soda	Purity: 99+% (w/w)	
Sodium Hydrogen Carbonate	Impurities: No impurities relevant for classification and labeling.	
Section 4: First		
Most Important Symptoms and Effects, Acute and Delayed	Description of First-Aid Measures	
General: None expected under normal conditions of use.	General: No known delayed effects. Never give anything by	
	mouth to an unconscious person. If you feel unwell, seek medical advice.	
Eye Contact: Contact may cause irritation due to mechanical	Eye Contact: Immediately rinse eyes with water. Remove any	
abrasion.	contact lenses, and continue flushing eyes with running water for	
abradion.	at least 15 minutes. Get immediate medical attention.	
Skin: Contact with large amounts of dust may cause mechanical	Skin: Wash affected areas with plenty of water, and soap if	
irritation.	available, for several minutes. Seek medical attention if irritation	
	develops or persists.	
Inhalation: Prolonged inhalation of dust may cause respiratory	Inhalation: Remove from area to fresh air. Seek medical	
irritation.	attention if respiratory irritation develops or if breathing becomes difficult.	
Ingestion: Large doses may product systemic alkalosis and	Ingestion: May cause nausea, vomiting and abdominal pain.	
expansion in extracellular fluid volume with edema.	Large doses can cause alkalosis.	
Indication of Any Immediate Medical Attention and Special Treats	ment Needed	
If exposed or concerned, get medical advice and attention.		
Section 5: Fire-fig		
General: This product will not burn, and can be used a dry powder ex		
Extinguishing Media Suitable Extinguishing Media: Use material suitable for	Advice for Firefighters No special precautions required.	
surrounding fire conditions.	General Measures: Wear self-contained breathing apparatus	
Unsuitable Extinguishing Media: none.	when entering area unless atmosphere is proved to be safe.	
Special Hazards Arising from the Substance	Protection During Firefighting: Do not enter fire area without	
Fire Hazard: Not Flammable	proper protective equipment, including respiratory protection.	
Explosion Hazards: Not Explosive	Hazardous Combustion Products: CO ₂ (displacement of	
Reactivity: Hazardous reactions will not occur under normal	breathable atmosphere).	
conditions.	I Pologo Magaura	
Section 6: Accidenta		
General Personal Precautions, Protective Equipment and Emerge containers for disposal in accordance with applicable regulations (see		
good industrial hygiene and safety practice. Avoid formation of dust.		
of water during cleanup.	The second secon	
For Non-Emergency Personnel	Environmental Precautions	
Keep dust levels to a minimum	Avoid any mixture with an acid into sewer or drain (CO ₂ gas	
Wear suitable personal protective equipment	formation)	
For Emergency Personnel	Methods for Containment: vacuum or shovel into bags	
Equip cleanup crew with proper protection. Ventilate area.	Methods for Cleanup: Avoid generation of dust during cleanup of spills. Keep in suitable closed labeled container for disposal.	
Section 7: Handl		
Precautions for Safe Handling: Avoid contact with eyes, skin and	Conditions for Safe Storage: Store in a cool, dry and well-	
clothing. Wash hands thoroughly with soap and water after	ventilated location. Good housekeeping should be maintained to	
handling and before eating, drinking or smoking.	minimize dust accumulation and generation.	
	Incompatibilities: Keep away from acids, water.	



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Section 8: Exposure Contr	ols / Personal Protection
es not otherwise classified)	Eye Protection: Use vented goggles or safety glasses in

Control Parameters (Particles not otherwise classified)

US ACGIH (TWA): 3 mg/m³ Respirable Dust

10 mg/m³ Total Dust

US OSHA PEL (TWA): 5 mg/m³ Respirable Dust

15 mg/m³ Total Dust

Engineering Controls: Use local exhaust ventilation to keep

airborne levels below exposure limits.

excessively dusty conditions

Skin Protection: Not required under normal conditions. Use gloves and protective clothing if excessively dusty, or if skin is damaged

Respiratory Protection: None required where adequate ventilation is provided. If airborne concentrations are high, use a NIOSH/MSHA approved respirator that has been selected by a technically qualified person for the specific work conditions.

Section 9: Physical and Chemical Properties				
Appearance: White granular solid	Explosive Limits: Not applicable			
Odor: No odor	Vapor Pressure: Not applicable			
Odor threshold: Not applicable	Vapor Density: Not applicable			
pH Value: 1% Solution = 8.0-8.5	Bulk Density: 60 lbs/ ft3			
Melting Point: Decomposes above 50°C without melting	Specific Gravity: (H ₂ O=1 @ 4°C): 2.16			
Boiling Point: Not applicable	Solubility In Water: 8.8% at 20°C			
Flash Point: Not Applicable	Partition coefficient: Not applicable (inorganic substance)			
Evaporation Rate: Not applicable	Auto-ignition temperature: Not applicable			
Flammability: Not applicable (can be used to put out fires)	Decomposition temperature: >50°C			
Molecular Weight: 84.01 g/cc	Viscosity: Not applicable			
Boiling Point: Decomposes on heating				
Section 10: Stability and Reactivity				
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Section 10: Stability and Reactivity				
Reactivity: Hazardous reactions will not occur under normal	Conditions to Avoid: Exposure to moisture or moist air.			
circumstances.	Temperatures above 150°F (65°C)			
Chemical Stability: Stable in dry air, in moist air forms sodium	Incompatible Materials: Acids. Aluminum (tarnishes).			
carbonate, an irritant.				
Possibility of Hazardous Reactions: Hazardous polymerization	Hazardous Decomposition Products: When heated to			
will not occur.	decomposition, sodium bicarbonate produces carbon dioxide.			

Section 11: Toxicological Information

EYES: Mid (rabbit) 100 mg/ 30 sec

SKIN: Mid (human) 30 mg/ 3 days-intermittent INGESTION: Oral LD60 (rat) 4220 mg/kg

Oral LD60 (mouse) 3360 mg/kg

Oral LDL5 (man) 20 mg/kg/ 5 days-intermittent

Oral LDL5 (infant) 1260 mg/kg

Symptoms after Inhalation: Prolonged inhalation of dust may cause respiratory irritation.

Symptoms after Skin Contact: Large amounts of dust may cause mechanical irritation.

Symptoms after Eye Contact: Contact may cause irritation due to mechanical abrasion.

Symptoms after Ingestion: Large doses may produce symptomatic alkalosis and expansion in extracellular fluid volume

with edema. Chronic Symptoms: None expected under normal conditions of use

Skin Corrosion/Irritation: Not classified Serious Eye Damage/Irritation: Not classified Respiratory or skin sensitization: Not classified

Germ cell mutagenicity: Not classified Teratogenicity: Not classified Carcinogenicity: Not classified

Specific Target Organ Toxicity: Not classified

Reproductive Toxicity: Not classified Aspiration Hazard: Not classified

CARCINOGENICITY: Sodium Bicarbonate is not listed as a carcinogen by the Environmental Protection Agency (EPA), the State of California, the National Toxicology Program, or the International Agency for Research on Cancer. See Regulatory Information Section for additional information.

Section 12: Ecological Information **Toxicity** 7100 mg/l (Bluegill) Persistence and Degradability: Not established LC 50 Fish 1: 8250-9000 mg/l (Exposure time 96h) LC 50 Fish 1: Bio-accumulative Potential: Not established EC 50 Daphnia 1: 4100 mg/l Mobility in Soil: Not available Other Adverse Effects: No other adverse effects are identified EC 50 Daphnia 1: 2350 mg/l (Exposure time 48h) LC 50 Fish 2: 7700 mg/l (Rainbow trout)

Section 13: Disposal Considerations

Disposal Guidance: If permitted by local and state regulations, place in a hazardous or industrial waste landfill. Tonnage quantities are not, however, recommended for the landfill, and if possible, should be re-used for an appropriate application. Small quantities may be flushed to sewers if permitted by NPDES or POTW permit. Refer to federal, state, provincial and local regulations for applicable sitespecific requirements. Keep out of drinking water sources. See Regulatory Information for more details.



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Section 14: Transport Information

U.S. Department of Transportation (DOT) Identification Number: Sodium Bicarbonate is not a DOT Hazardous Material.

International Transportation: Sodium Bicarbonate has no U.N. number, and is not regulated under international rail, highway, water, or air transport regulations.

Transportation of Dangerous Goods (TDG): Not Regulated

Transportation of Dangerous Cooks (TDO): Not Negulated.				
Section 15: Regulatory Information				
TSCA Number: 144-55-8	California Proposition 65: Not listed.			
RCRA (40 CFR 261): Not listed under any section.	SARA III: Section 302-No:311-Yes: 312-Yes: 313-No			
CERCLA (Superfund): Not listed under any section.	Workplace Hazardous Materials Information System			
, , ,	(WHMIS): Not a controlled product.			
Clean Water Act (CWA): Not listed.	EU CLASSIFICATION: Not a dangerous substance.			
Safe Drinking Water Act (SWDA): Not listed.	OSHA: Treat as particulates not otherwise regulated.			
International Agency for Research on Cancer: Not listed.	ACGIH: Treat as particulates not otherwise regulated.			
NTP Annual Report on Carcinogens:	Federal Drug Agency (FDA): Sodium bicarbonate is permitted			
OSHA Carcinogen: Not listed.	for the following uses: Antibiotic manufacturing; cake, pancake			
CONEG Model Legislation: Not listed.	and ready-mixes; catalyst manufacture; chemical; dentifrices;			
_	explosives; fire extinguishers; food colors; food conditioner;			
	papermaking; pharmaceuticals; photography; self-rising flour;			
	starches; sugar refining; textiles.			

International Listings

- AICS (Australian Inventory of Chemical Substances.
- Canadian DSL (Domestic Substances List).
- IECSC (Inventory of Existing Chemical Substances Produced or Imported in China).
- EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
- Japanese ENCS (Existing & New chemical Substances) inventory
- Korean ECL (Existing Chemicals List)
- NZIoC (New Zealand Inventory of Chemicals)
- PICCS (Philippines Inventory of Chemicals and Chemical Substances)
- United States TSCA (Toxic Substances Control Act) inventory

NOTICE

Judgments as to the suitability of information herein for purchaser's purposes are necessarily purchaser's responsibility. Therefore, although reasonable care has been taken in the preparation of such information, Natural Soda LLC extends no warranties, makes no representation, and assumes no responsibility as to the accuracy or suitability of such information for application to purchaser's intended purposes for consequences of its use.

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Section 16: Other Information, including date of preparation or last revision This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Revision Date:	Prepared by:	Natural Soda LLC
	'	3200 County Road 31
06/04/2015		Rifle, Colorado 81650 Ph: 970-878-3674